

Final SIMULINK model:

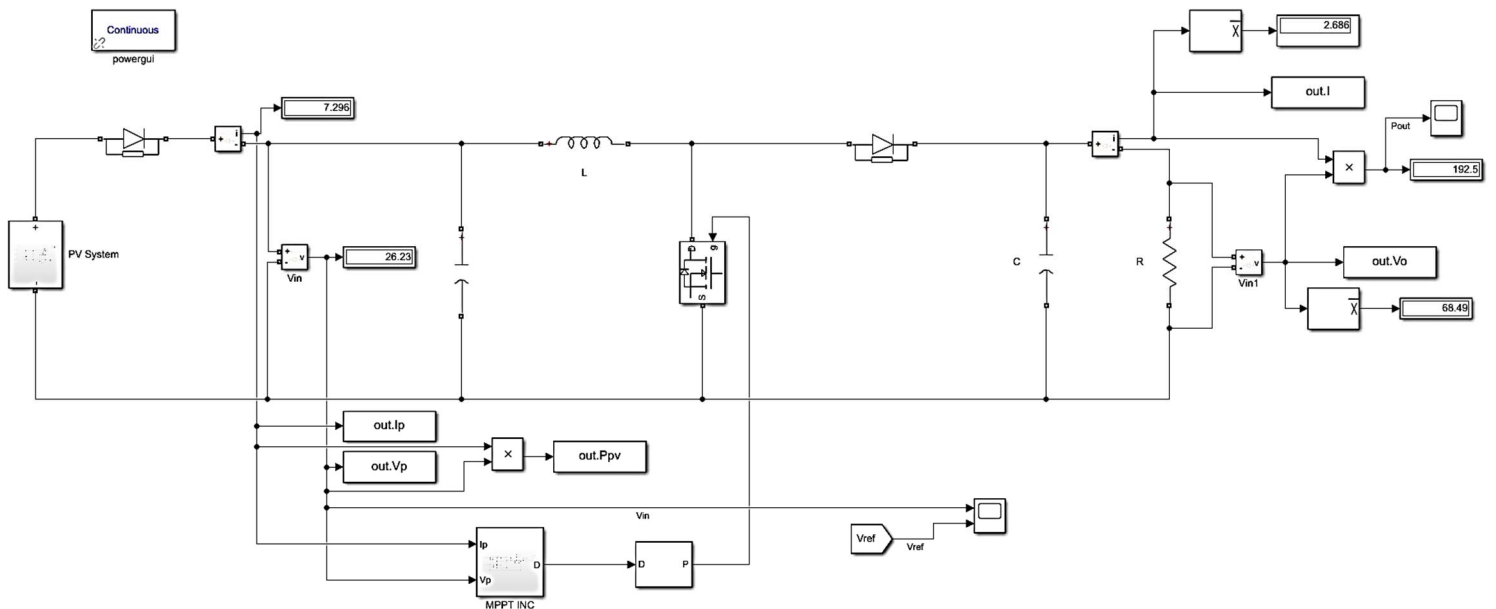


Fig 1. SIMULINK model for MPPT

MPPT Incremental Conductance model:

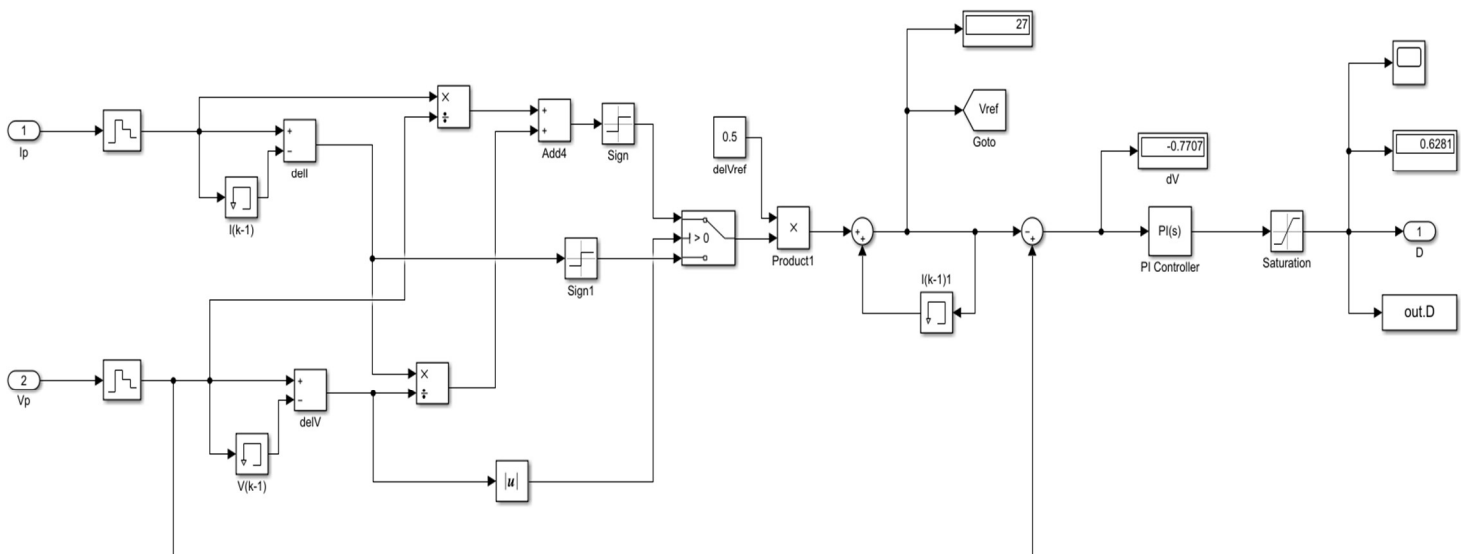


Fig 2. INC MPPT algorithm

Waveforms:

1) Solar Insolation vs Time

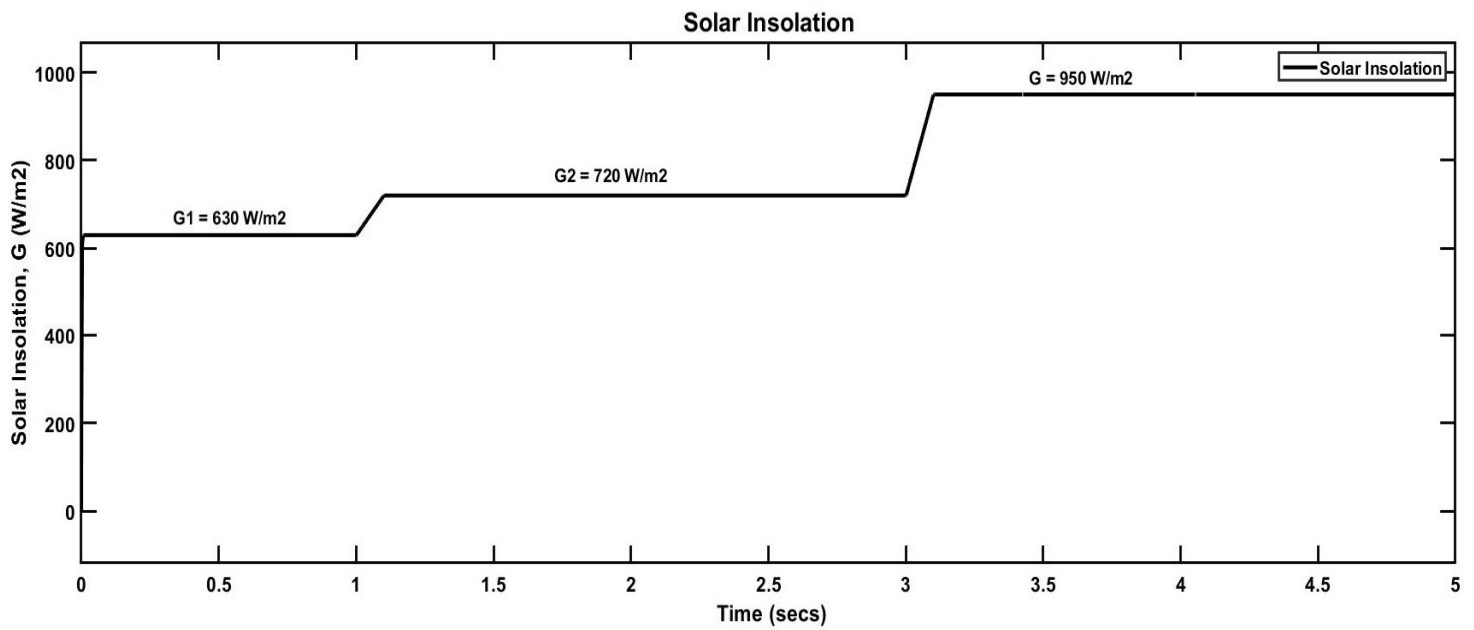


Fig 3. Different levels of Solar Insolation

2) PV panel Power vs PV panel voltage

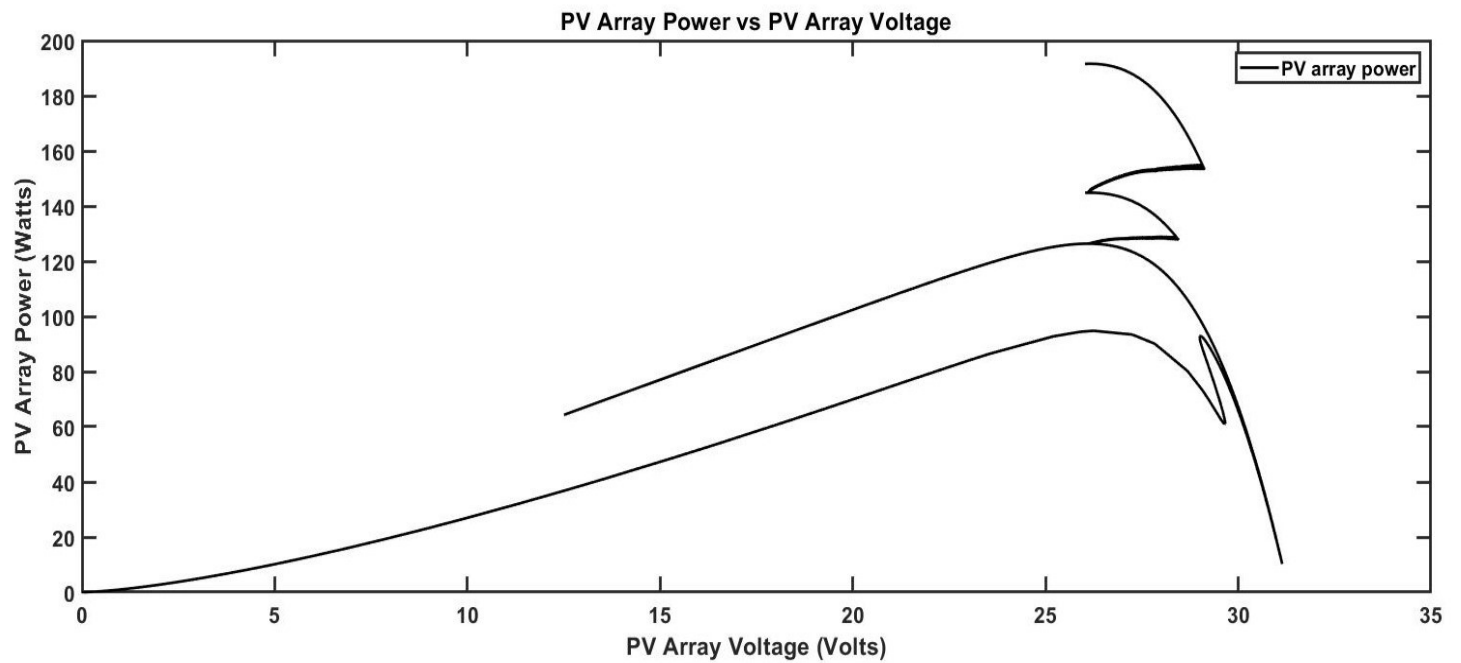


Fig 4. PV array power vs PV array voltage

3) Duty Ratio vs Time

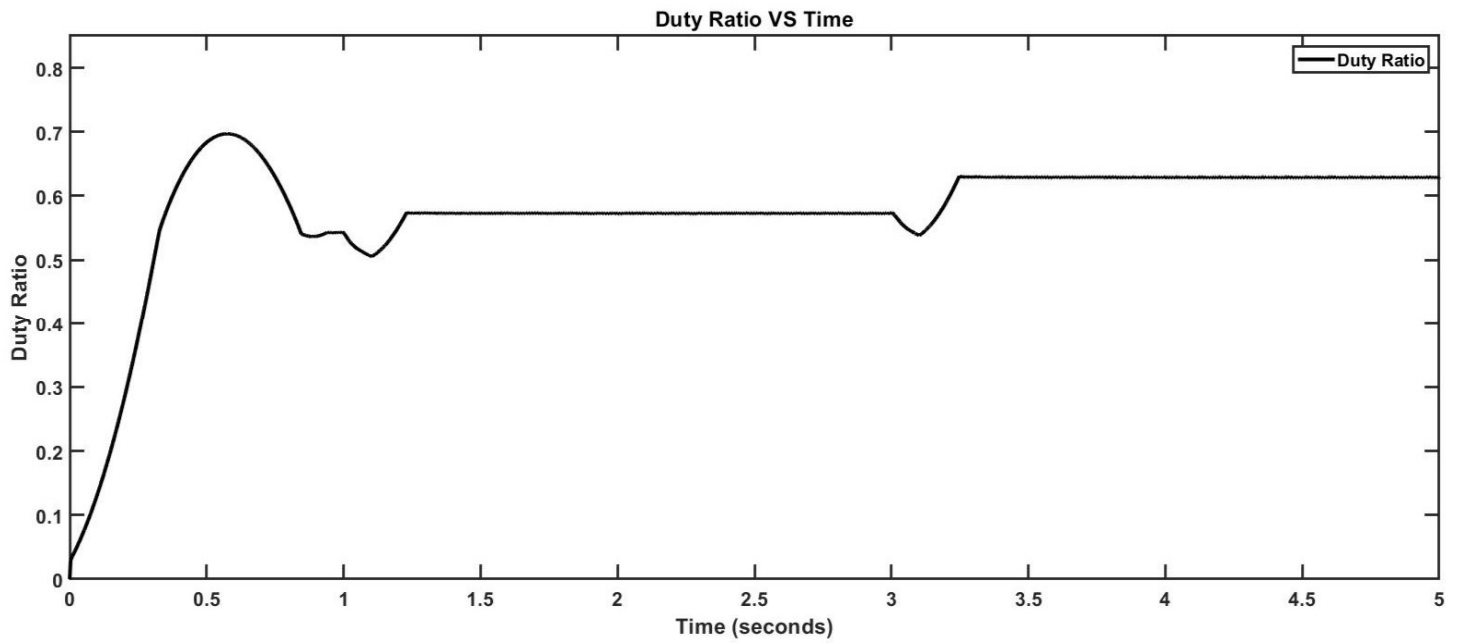


Fig 5. Duty ratio vs time

4) PV current vs PV voltage

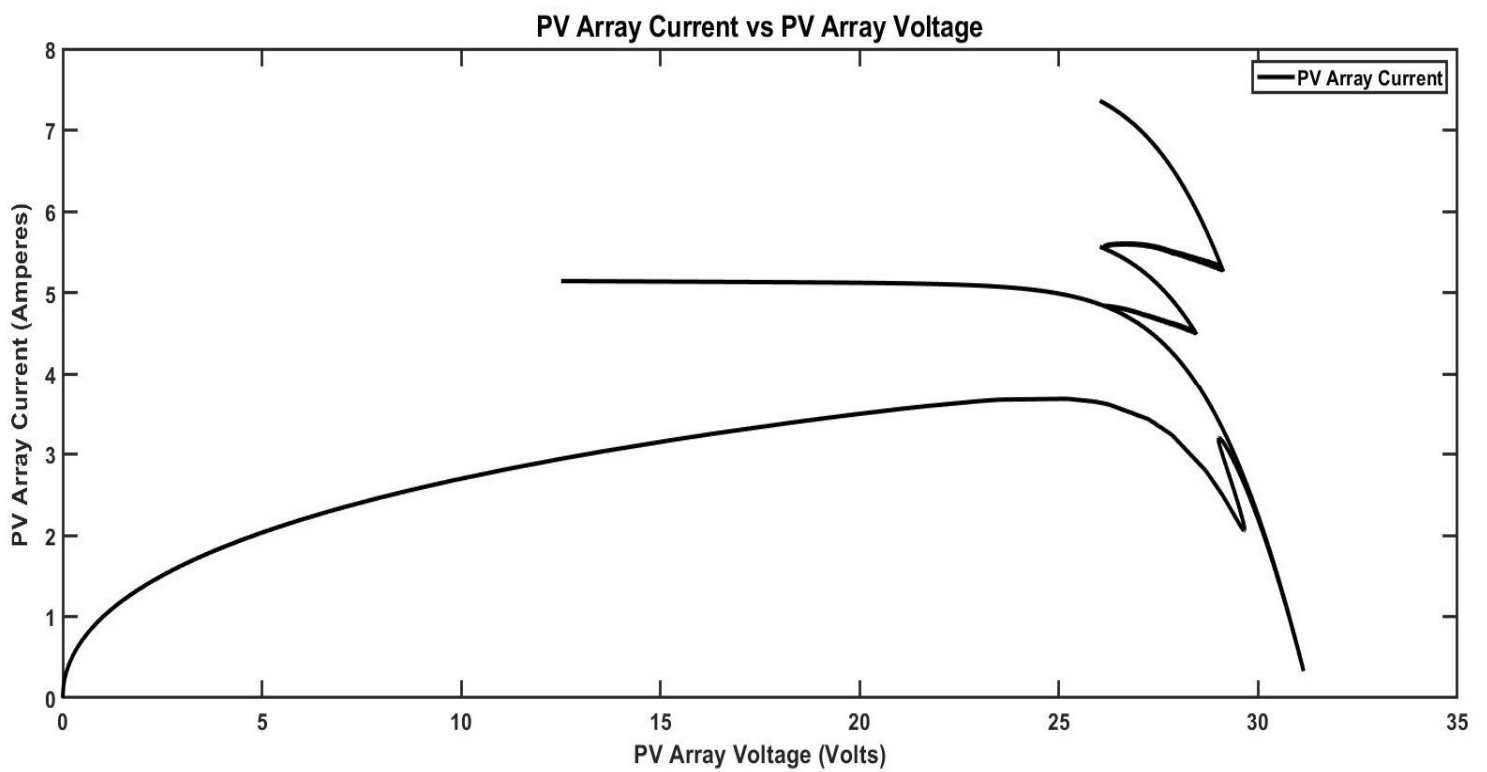


Fig 6. PV current vs PV voltage

5) Output Power vs Time

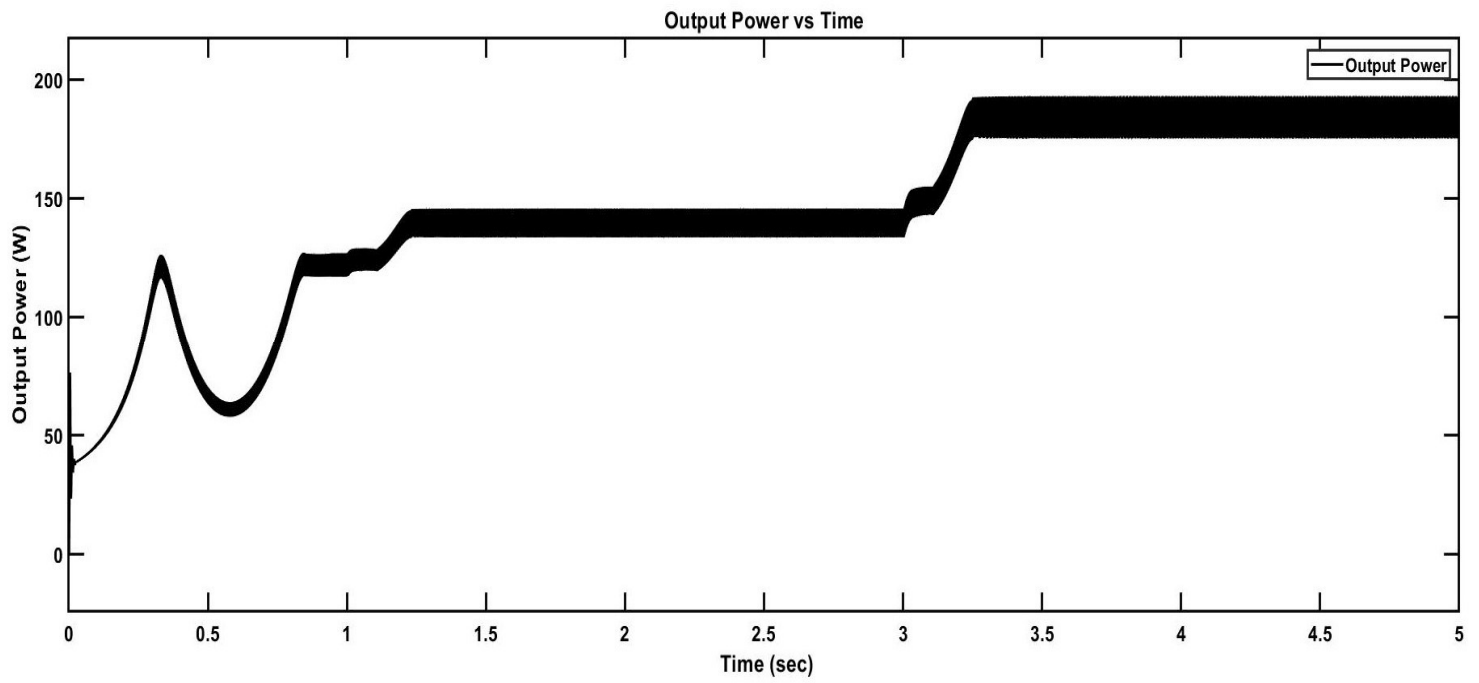


Fig 7. Output Power of the model